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**90310252.3 / 0 419 232**

(71) Applicant: **Mentor Graphics Corporation**  
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**(54) Field programmable printed circuit board**

(57) A field programmable printed circuit board is provided which includes a multiplicity of component contacts for making electrical contact to the leads of electronic components to be mounted on the printed circuit board, a corresponding multiplicity of interconnect contacts for receipt of the leads on the package or packages of a programmable integrated circuit or circuits for intercon-

necting as desired the electronic components, and one or more layers of conductive traces formed on the printed circuit board, each conductive trace uniquely connecting electrically one component contact to one interconnect contact.

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# EUROPEAN SEARCH REPORT

Application Number  
EP 99 11 9839

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	HYDEN L ET AL: "SILICON CIRCUIT BOARDS: OFF-THE-SHELF CONVENIENCE" ELECTRONIC PACKAGING AND PRODUCTION, CAHNERS PUBLISHING CO, NEWTON, MASSACHUSETTS, US, vol: 28, no. 4, 1 April 1988 (1988-04-01), pages 70-74, XP000033867 ISSN: 0013-4945	1-5	G06F17/50 H05K3/00 H05K1/00 H01L23/525
A	* page 71, column 2, line 5 - line 20 *  * figure 1 *	6,7, 9-11,17	
Y	US 4 758 745 A (ELGAMAL ET AL) 19 July 1988 (1988-07-19)	1-5	
A	* column 7, line 21 - line 48 *  * column 8, line 14 - column 10, line 8 * * figures 3,5-7 *	6,7, 9-11,17	
Y	EP 0 329 018 A (MICROELECTRONICS AND COMPUTER TECHNOLOGY CORPORATION) 23 August 1989 (1989-08-23)	1-5	TECHNICAL FIELDS SEARCHED (IPC)
A	* column 4, line 34 - line 49 *  * column 5, line 8 - line 23 * * column 8, line 24 - column 9, line 13 * * claims 27,28 * * figure 2 *	6,7, 9-11,17	G06F H05K
A	US 4 829 404 A (JENSEN ET AL) 9 May 1989 (1989-05-09) * column 3, line 28 - column 4, line 48 * * column 5, line 37 - line 42 * * column 6, line 15 - line 54 * * figures 4-7,12,14a,14b *	1,2,6,7, 9-11,17	
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The present search report has been drawn up for all claims			
Place of search <b>The Hague</b>		Date of completion of the search <b>6 January 2006</b>	Examiner <b>Guingale, A</b>
<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons &amp; : member of the same patent family, corresponding document</p>			

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Application Number  
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The present search report has been drawn up for all claims			
Place of search <b>The Hague</b>		Date of completion of the search <b>6 January 2006</b>	Examiner <b>Guingale, A</b>
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 99 11 9839

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The members are as contained in the European Patent Office EDP file on  
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